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Application Number 10/625,901
Amendment dated December 9, 2004
Reply to Office action of September 9, 2004
And to the Notice of Non-Compliant Amendment of January 19, 2005

Amendments to the Abstract:

Please replace the Abstract on file with the attached new abstract.

~~A method and apparatus is disclosed for creating an optical ferrule. A~~
~~mechanical coupling of the ferrule is achieved, at a first end of the ferrule, using at least~~
~~two dowels while an optical coupling of the ferrule with an optical device is achieved, at~~
~~a second end of the ferrule, using a total internal reflection. An optical connector and a~~
~~manufacturing method are disclosed. The method for manufacturing an optical~~
~~connector achieving a mechanical coupling comprises embedding a length of at least~~
~~one optical fiber in a body to form an assembly. It also comprises to remove, at a first~~
~~end of the assembly, a portion to provide a beveled surface on a corresponding first~~
~~end of the optical fiber at which light is reflected for a side coupling. Also, at a portion of~~
~~a side of the assembly near the first end, the method comprises creating an optical~~
~~surface to provide a flat coupling surface for said side coupling. The method also~~
~~comprises removing, at a second end of the assembly, a portion to provide a flat~~
~~abutment surface including a corresponding second end of the at least one optical fiber.~~
~~The method also comprises providing at the second end of the assembly a mating~~
~~structure for precision connecting with a complementary connector in which an optical~~
~~waveguide is end-coupled with at least one of the optical fiber.~~